

1. Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Previously Presented) A wearable device arranged for enabling a bioelectrical interaction with an individual by means of a first signal, said device comprising:
an electrode having a contact surface arranged to be brought into contact with the individual's skin for carrying out said interaction, the electrode comprising motion artifact detection means having a thin film pressure sensor arranged on a rear surface of the electrode, said rear surface being opposite the contact surface, wherein the motion artifact detection means is arranged to determine a component normal to the contact surface of an external force applied to the electrode under operating conditions, said motion artifact detection means being arranged to provide a second signal and comprising motion artifact correction means to process the second signal in order to correct the value of the first signal for a motion artifact.
2. (Previously Presented) A wearable device according to claim 1, wherein the device comprises control means arranged to analyze the second signal, said control means being further arranged to actuate the motion artifact correction means upon an occurrence of a predetermined event.
3. (Previously Presented) A wearable device according to claim 2, wherein the device comprises means for deriving the occurrence of the predetermined event from the second signal.

4. -5. (Cancelled).

6. (Previously Presented) A wearable device according to claim 1, wherein the motion artifact correction means comprises a linearization element, said linearization element being arranged to correct for a non-linearity in a relation between an absolute value of the second signal and the external force.

7. (Previously Presented) A wearable device according to claim 1, wherein the electrodes are of a dry type.

8. (Previously Presented) An electrode assembly comprising:

an electrode having a contact surface, the assembly being arranged to enable a bioelectrical interaction with an individual by means of a first signal when the contact surface is brought in contact with the individual's skin, said electrode assembly comprising motion artifact detection means having a thin film pressure sensor arranged on a rear surface of the electrode, said rear surface being opposite the contact surface, wherein the motion artifact detection means is arranged to determine a component normal to the contact surface of an external force applied to the electrode under operating conditions, said motion artifact detection means being arranged to provide a second signal, related to the external force.

9. -10. (Cancelled).